L Number	Hits	Search Text	DB	Time stamp
-	19	(("5329481") or ("5694071") or ("5874771") or ("5760450") or	USPAT;	2002/08/26 06:24
		("6331467") or ("6355971") or ("6252282") or	US-PGPUB;	
		("6242762")).PN.	EPO; JPO;	
			DERWENT;	
		("4060027")	IBM_TDB	0000/05/40 00:44
-	3	("4969027").PN.	USPAT;	2002/05/16 09:11
			US-PGPUB;	
			EPO; JPO; DERWENT;	
			IBM TDB	
1_	0	6252282.URPN.	USPAT	2002/05/16 08:43
1_	7	("3649882"   "3707410"   "3775192"   "4000506"   "4006046"	USPAT	2002/05/16 08:43
	•	"4047217"   "4969027").PN.	100171	2002/03/10 00:43
_	7	4969027.URPN.	USPAT	2002/05/16 08:44
-	9	("4443931"   "4521795"   "4605948"   "4613887"   "4631561"	USPAT	2002/05/16 08:45
		"4641174"   "4739386"   "4767722"   "4823172").PN.		
-	5595	((438/170) or (438/189) or (438/194) or (438/217) or	USPAT;	2002/05/16 09:32
		(438/232) or (438/234) or (438/235) or (438/236) or	US-PGPUB;	
		(438/237) or (438/291) or (438/309) or (438/328) or	EPO; JPO;	
		(438/336) or (438/340) or (438/356) or (438/357) or	DERWENT,	
	,	(438/372) or (438/372) or (438/373) or (438/374) or	IBM_TDB	
		(438/514) or (438/515) or (438/534) or (438/571) or		
		(438/572)).CCLS.	1	
-	4716	(((438/170) or (438/189) or (438/194) or (438/217) or	USPAT;	2002/05/16 09:33
		(438/232) or (438/234) or (438/235) or (438/236) or	US-PGPUB;	
		(438/237) or (438/291) or (438/309) or (438/328) or	EPO; JPO;	
1		(438/336) or (438/340) or (438/356) or (438/357) or (438/372) or (438/372) or (438/373) or (438/374) or	DERWENT;	
	•	(438/514) or (438/515) or (438/534) or (438/571) or	IBM_TDB	
		(438/572)).CCLS.) and @ad<=19980209		
-	141	((((438/170) or (438/189) or (438/194) or (438/217) or	USPAT;	2002/05/16 09:38
! !		(438/232) or (438/234) or (438/235) or (438/236) or	US-PGPUB:	2002/00/10 03:38
		(438/237) or (438/291) or (438/309) or (438/328) or	EPO; JPO;	
		(438/336) or (438/340) or (438/356) or (438/357) or	DERWENT:	
		(438/372) or (438/372) or (438/373) or (438/374) or	IBM_TDB	
		(438/514) or (438/515) or (438/534) or (438/571) or		
		(438/572)).CCLS.) and @ad<=19980209) and (lower with		
		doping)		
<del>-</del>	39	((((((438/170) or (438/189) or (438/194) or (438/217) or	USPAT;	2002/05/16 09:42
		(438/232) or (438/234) or (438/235) or (438/236) or	US-PGPUB;	
		(438/237) or (438/291) or (438/309) or (438/328) or (438/336) or (438/340) or (438/356) or (438/357) or	EPO; JPO; DERWENT:	
		(438/372) or (438/372) or (438/373) or (438/374) or	IBM TDB	
		(438/514) or (438/515) or (438/534) or (438/571) or	םם ו _וייים	
		(438/572)).CCLS.) and @ad<=19980209) and (lower with		
		doping)) and diode	1	
-	2729	((((438/170) or (438/189) or (438/194) or (438/217) or	USPAT;	2002/05/16 09:43
]		(438/232) or (438/234) or (438/235) or (438/236) or	US-PGPUB;	
		(438/237) or (438/291) or (438/309) or (438/328) or	EPO; JPO;	
		(438/336) or (438/340) or (438/356) or (438/357) or	DERWENT;	
[		(438/372) or (438/372) or (438/373) or (438/374) or	IBM_TDB	
		(438/514) or (438/515) or (438/534) or (438/571) or	_	
		(438/572)).CCLS.) and @ad<=19980209) and semiconductor		
		and region		
-	457	(((((438/170) or (438/189) or (438/194) or (438/217) or	USPAT;	2002/05/16 09:43
		(438/232) or (438/234) or (438/235) or (438/236) or	US-PGPUB;	
		(438/237) or (438/291) or (438/309) or (438/328) or	EPO; JPO;	
		(438/336) or (438/340) or (438/356) or (438/357) or	DERWENT;	
!		(438/372) or (438/372) or (438/373) or (438/374) or (438/514) or (438/515) or (438/524) or (438/571) or	IBM_TDB	
		(438/514) or (438/515) or (438/534) or (438/571) or (438/572)).CCLS.) and @ad<=19980209) and semiconductor		
		and region) and diode		
		and region) und diode	L	

-	648	(((((438/170) or (438/189) or (438/194) or (438/217) or	USPAT;	2002/05/16 09:43
		(438/232) or (438/234) or (438/235) or (438/236) or	US-PGPUB;	-
		(438/237) or (438/291) or (438/309) or (438/328) or	EPO; JPO;	
		(438/336) or (438/340) or (438/356) or (438/357) or	DERWENT;	
		(438/372) or (438/372) or (438/373) or (438/374) or	IBM_TDB	
		(438/514) or (438/515) or (438/534) or (438/571) or	ļ	4
		(438/572)).CCLS.) and @ad<=19980209) and semiconductor		•
		and region) and (bipolar adj transistor)		
-	415	((((((438/170) or (438/189) or (438/194) or (438/217) or	USPAT;	2002/05/16 09:44
		(438/232) or (438/234) or (438/235) or (438/236) or	US-PGPUB;	
		(438/237) or (438/291) or (438/309) or (438/328) or	EPO; JPO;	
		(438/336) or (438/340) or (438/356) or (438/357) or	DERWENT:	
		(438/372) or (438/372) or (438/373) or (438/374) or	IBM_TDB	
ł		(438/514) or (438/515) or (438/534) or (438/571) or		
		(438/572)).CCLS.) and @ad<=19980209) and semiconductor		
		and region) and (bipolar adj transistor)) and doping		
_	80	(((((((438/170) or (438/189) or (438/194) or (438/217) or	USPAT;	2002/05/16 09:44
		(438/232) or (438/234) or (438/235) or (438/236) or	US-PGPUB;	2002/00/10 00:44
		(438/237) or (438/291) or (438/309) or (438/328) or	EPO; JPO;	
		(438/336) or (438/340) or (438/356) or (438/357) or	DERWENT;	
•		(438/372) or (438/372) or (438/373) or (438/374) or	IBM_TDB	
		(438/514) or (438/515) or (438/534) or (438/571) or	IDM_IDB	
		(438/572)).CCLS.) and @ad<=19980209) and semiconductor		
		and region) and (bipolar adj transistor)) and doping) and		
	5060	multiple	LICDAT	0000/00/40 40:40
-	5260	((438/167) or (438/169) or (438/170) or (438/173) or	USPAT;	2003/02/19 10:19
	İ	(438/174) or (438/181) or (438/194) or (438/202) or	US-PGPUB;	
		(438/224) or (438/233) or (438/234) or (438/282) or	EPO; JPO;	
		(438/305) or (438/306) or (438/307) or (438/381) or	DERWENT;	
		(438/332) or (438/338) or (438/369) or (438/372) or	IBM_TDB	
		(438/373) or (438/374) or (438/376) or (257/526) or		
	2677	(257/560) or (257/565)).CCLS.	LIODAT	0000/00/00 40 55
-	3677	(((438/167) or (438/169) or (438/170) or (438/173) or	USPAT;	2002/08/23 10:55
		(438/174) or (438/181) or (438/194) or (438/202) or	US-PGPUB;	
		(438/224) or (438/233) or (438/234) or (438/282) or	EPO; JPO;	
		(438/305) or (438/306) or (438/307) or (438/381) or	DERWENT;	
		(438/332) or (438/338) or (438/369) or (438/372) or	IBM_TDB	
		(438/373) or (438/374) or (438/376) or (257/526) or		
		(257/560) or (257/565)).CCLS.) and @ad<=19980209		
-	19	((((438/167) or (438/169) or (438/170) or (438/173) or	USPAT;	2002/08/23 10:59
		(438/174) or (438/181) or (438/194) or (438/202) or	US-PGPUB;	
		(438/224) or (438/233) or (438/234) or (438/282) or	EPO; JPO;	
		(438/305) or (438/306) or (438/307) or (438/381) or	DERWENT;	
		(438/332) or (438/338) or (438/369) or (438/372) or	IBM_TDB	
		(438/373) or (438/374) or (438/376) or (257/526) or		
		(257/560) or (257/565)).CCLS.) and @ad<=19980209) and		
		(multiple with doping)	l <u>.</u>	
-	46	((((438/167) or (438/169) or (438/170) or (438/173) or	USPAT;	2002/08/23 11:04
		(438/174) or (438/181) or (438/194) or (438/202) or	US-PGPUB;	
		(438/224) or (438/233) or (438/234) or (438/282) or	EPO; JPO;	
		(438/305) or (438/306) or (438/307) or (438/381) or	DERWENT;	
		(438/332) or (438/338) or (438/369) or (438/372) or	IBM_TDB	
		(438/373) or (438/374) or (438/376) or (257/526) or		
		(257/560) or (257/565)).CCLS.) and @ad<=19980209) and		
}		(multiple with (implantation doping))		
<b>-</b>	1019	((((438/167) or (438/169) or (438/170) or (438/173) or	USPAT;	2002/08/23 13:13
		(438/174) or (438/181) or (438/194) or (438/202) or	US-PGPUB;	
		(438/224) or (438/233) or (438/234) or (438/282) or	EPO; JPO;	
		(438/305) or (438/306) or (438/307) or (438/381) or	DERWENT;	
i		(438/332) or (438/338) or (438/369) or (438/372) or	IBM_TDB	
1		(438/373) or (438/374) or (438/376) or (257/526) or		
		(257/560) or (257/565)).CCLS.) and @ad<≃19980209) and		
		((implantation implant implants doping dopant doped dopes)		
		with (depth level))		
	L	2 TE		<del></del>

-	148	(bipolar with transistor) and (depletion with zone)	USPAT;	2002/08/23 13:14
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	144	(/hingler with transister) and (depletion with zene)) and	IBM_TDB	2002/09/22 12:14
	144	((bipolar with transistor) and (depletion with zone)) and @ad<=20010511	USPAT; US-PGPUB;	2002/08/23 13:14
		Wad 200 100 1 1	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	7	4969027.URPN.	USPAT	2002/08/23 13:36
-	0	6252282.URPN.	USPAT	2002/08/23 13:37
-	7	("3649882"   "3707410"   "3775192"   "4000506"   "4006046"	USPAT	2002/08/23 13:37
		"4047217"   "4969027").PN.		
-	14	4006046.URPN.	USPAT	2002/08/23 13:39
-	8	("3575742"   "3586548"   "3615938"   "3719535"   "3765963"	USPAT	2002/08/23 13:45
	100	"3767484"   "3839104"   "3915767") PN.		
-	202975	3915767.URPN.	USPAT	2002/08/23 13:46
-	202875	transistor with ((depletion base) (region zone))	USPAT; US-PGPUB;	2002/08/23 13:48
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	18674	transistor with ((depletion base) with (region zone))	USPAT;	2002/08/23 13:49
		, , , , , , , , , , , , , , , , , , , ,	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	25469	transistor with ((depletion base diffusion) with (region zone))	USPAT;	2002/08/23 13:49
			US-PGPUB;	
			EPO; JPO;	
		· ·	DERWENT;	
_	6639	   (transistor with ((depletion base diffusion) with (region zone)))	IBM_TDB USPAT;	2002/08/23 13:49
		and doping	US-PGPUB;	2002/00/23 13.49
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	3881	((transistor with ((depletion base diffusion) with (region	USPAT;	2002/08/23 13:50
		zone))) and doping) and bipolar	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
_	79	(((transistor with ((depletion base diffusion) with (region	IBM_TDB USPAT;	2003/08/18 14:46
	'3	Zone))) and doping) and bipolar) and (source drain) and (flux)	US-PGPUB;	2003/00/10 14.40
		and (reduced smaller short)	EPO; JPO;	
-			DERWENT;	
			IBM_TDB	
-	18	5279976.URPN.	USPAT	2002/08/23 14:10
-	6506	clamping with diode	USPAT;	2002/08/23 14:12
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
_	221	(clamping with diode) and (doping)	IBM_TDB USPAT;	2002/09/22 44:42
	221	(Journaling with Glode) and (doping)	US-PGPUB;	2002/08/23 14:13
			EPO; JPO;	
			DERWENT:	
			IBM_TDB	
-	2	("5536958").PN.	USPAT;	2002/08/23 14:49
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	3	5536958.URPN.	IBM_TDB	2002/00/02 44 54
ــــــــــــــــــــــــــــــــــــــ	3	JUJUJUJU.UKFN.	USPAT	2002/08/23 14:31

-	3	("3798514"   "4774560"   "5365099").PN.	USPAT	2002/08/23 14:32
-	240	(((438/\$) (257/\$)).ccls.) and ((source with drain) and (clamp	USPAT;	2002/08/26 06:25
		with diode))	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	ļ		IBM_TDB	
-	81	(((((438/\$) (257/\$)).ccls.) and ((source with drain) and (clamp	USPAT;	2002/08/26 06:26
		with diode))) and avalanche	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	57	((((((438/\$) (257/\$)).ccls.) and ((source with drain) and (clamp	USPAT;	2002/08/26 06:26
		with diode))) and avalanche) and @ad<≈19980209	US-PGPUB;	
1			EPO; JPO;	
			DERWENT;	
1			IBM_TDB	
-	1 1	"4686551".PN.	USPAT	2002/08/26 06:32
-	13	4686551.URPN.	USPAT	2002/08/26 06:33
-	9	("4443931"   "4521795"   "4605948"   "4613887"   "4631561"	USPAT	2002/08/26 06:47
1		"4641174"   "4739386"   "4767722"   "4823172").PN.	1	
-	6128	((438/167) or (438/169) or (438/170) or (438/173) or	USPAT;	2003/02/19 10:20
1	1	(438/174) or (438/181) or (438/194) or (438/202) or	US-PGPUB;	
		(438/224) or (438/233) or (438/234) or (438/282) or	EPO; JPO;	
1	}	(438/305) or (438/306) or (438/307) or (438/381) or	DERWENT;	
1	}	(438/332) or (438/338) or (438/369) or (438/372) or	IBM_TDB	
		(438/373) or (438/374) or (438/376) or (257/526) or		
		(257/560) or (257/565) or (438/312) or (438/570) or		
	040	(438/313) or (438/338)).CCLS.		
-	612	(((438/167) or (438/169) or (438/170) or (438/173) or	USPAT;	2003/02/19 10:22
1	l.	(438/174) or (438/181) or (438/194) or (438/202) or	US-PGPUB;	
1		(438/224) or (438/233) or (438/234) or (438/282) or	EPO; JPO;	
		(438/305) or (438/306) or (438/307) or (438/381) or	DERWENT;	•
		(438/332) or (438/338) or (438/369) or (438/372) or	IBM_TDB	
	ļ	(438/373) or (438/374) or (438/376) or (257/526) or		
		(257/560) or (257/565) or (438/312) or (438/570) or		
		(438/313) or (438/338)).CCLS.) and (voltage with (control\$3		
	205	regulat\$3))	LICOAT	0000/00/40 40 00
-	395	((((438/167) or (438/169) or (438/170) or (438/173) or	USPAT;	2003/02/19 10:22
		(438/174) or (438/181) or (438/194) or (438/202) or	US-PGPUB;	
!		(438/224) or (438/233) or (438/234) or (438/282) or (438/305) or (438/306) or (438/307) or (438/381) or	EPO; JPO;	
			DERWENT; IBM TDB	
		(438/332) or (438/338) or (438/369) or (438/372) or (438/373) or (438/374) or (438/376) or (257/526) or	I IDIVI_I DB	
	l	(438/373) or (438/374) or (438/376) or (257/326) or (438/570) or		
		(438/313) or (438/338)).CCLS.) and (voltage with (control\$3		
		regulat\$3))) and @ad<=19980209		
_	15	4452646.URPN.	USPAT	2003/02/19 11:06
_	4	("4038563"   "4108686"   "4314858"   "4372032").PN.	USPAT	2003/02/19 11:07
]_	20	("4066473"   "4283236"   "4431460"   "4484388"   "4602269"	USPAT	2003/02/19 11:08
	-5	"4740478"   "4803175"   "4927776"   "4933295"   "4956305"	33.7.1	2000,02710 11.00
	1	"4957874"   "4962053"   "4965216"   "4993295"   "5006476"		
	1	"5011784"   "5095355"   "5101257"   "5107321"		
	1	"5227657").PN.	1	
-	67	4345265.URPN.	USPAT	2003/02/20 08:20
-	25	5191396.URPN.	USPAT	2003/02/20 08:25
-	70	4345265.URPN.	USPAT	2003/08/14 14:03
-	88	4376286.URPN.	USPAT	2003/08/14 14:12
-	6	5643805.URPN.	USPAT	2003/08/18 13:24
-	1	"5137840".PN.	USPAT	2003/08/18 13:34
<b>-</b>	3	swithching with transistor	USPAT;	2003/08/18 13:47
			US-PGPUB	
<b> </b> -	62123	switching with transistor	USPAT;	2003/08/18 13:47
			US-PGPUB	
-	263047	switching with transistor) (first with region	USPAT;	2003/08/18 13:48
			US-PGPUB	
	•——	· · · · · · · · · · · · · · · · · ·		L

-	8610	(switching with transistor) and (first with region)	USPAT; US-PGPUB	2003/08/18 13:48
-	7263	((switching with transistor) and (first with region)) and (second with region)	USPAT; US-PGPUB	2003/08/18 13:48
-	3105	((((switching with transistor) and (first with region)) and (second with region)) and (third with region)	USPAT; US-PGPUB	2003/08/18 13:48
-	4	((((switching with transistor) and (first with region)) and (second with region)) and (third with region)) and (dopant	USPAT; US-PGPUB	2003/08/18 13:59
-	7	with flux)   ("3649882"   "3707410"   "3775192"   "4000506"   "4006046"     "4047217"   "4969027").PN.	USPAT	2003/08/18 13:50
-	1	6252282.URPN.	USPAT	2003/08/18 13:50
-	3 20	("4593305"   "5489799"   "6252282").PN.   4047217.URPN.	USPAT USPAT	2003/08/18 13:50 2003/08/18 13:51
]_	14	4006046.URPN.	USPAT	2003/08/18 13:56
_	14	"pn clamping diode"	USPAT;	2003/08/18 14:07
			US-PGPUB	
-	160	(438/328).CCLS.	USPAT; US-PGPUB	2003/08/18 14:27
-	4	3226614.URPN.	USPAT	2003/08/18 14:39
-	3	4046609.URPN.	USPAT	2003/08/18 14:40
-	3 90	4046609.URPN. (((transistor with ((depletion base diffusion) with (region	USPAT	2003/08/18 14:40 2003/08/18 14:47
-	90	zone))) and doping) and bipolar) and (source drain) and (flux) and (reduced smaller short)	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2003/06/16 14.47
-	9	("4101922"   "4128439"   "4400711"   "4605980"   "4734752"   "4990976"   "5019888"   "5162888"   "5371395").PN.	IBM_TDB USPAT	2003/08/18 14:50
_	5	5907174.URPN.	USPAT	2003/08/18 14:51
-	24	("4400711"   "4470191"   "4972247"   "5262344"   "5416351"   "5440163"   "5504362"   "5517049"   "5535086"   "5545572"   "5572394"   "5589415"   "5620920"   "5631793"   "5637900"   "5734186"   "5814538"   "5814866"   "5838033"   "5841169"   "5891792"   "5907174"   "5918127"   "5982003").PN.	USPAT	2003/08/18 14:51
-	235	schottky with clamping with diode	USPAT; US-PGPUB	2003/08/19 07:29
-	0	(schottky with clamping with diode) and collector and base and amitter	USPAT; US-PGPUB	2003/08/19 07:29
-	180	(schottky with clamping with diode) and collector and base and emitter	USPAT; US-PGPUB	2003/08/19 07:55
]-	47	((schottky with clamping with diode) and collector and base and emitter) and switching with time	USPAT; US-PGPUB	2003/08/19 07:55
-	10	3909837.URPN.	USPAT	2003/08/19 07:37
-	12613	4333100.URPN.	USPAT	2003/08/19 07:38
	5811	clamp\$3 with diode  (clamp\$3 with diode) and collector and base and emitter	USPAT; US-PGPUB USPAT;	2003/08/19 07:55
			US-PGPUB	
-	1677	((clamp\$3 with diode) and collector and base and emitter) and switching with time	USPAT; US-PGPUB	2003/08/19 07:56
, =	42	(((clamp\$3 with diode) and collector and base and emitter) and switching with time) and (ion with implant\$5)	USPAT; US-PGPUB	2003/08/19 07:56
-	8	4739386.URPN.	USPAT	2003/08/19 08:00
-	9	4954865.URPN.	USPAT	2003/08/19 08:03
-	9	5072285.URPN. ("4682202"   "4825274"   "4829200"   "4868626"   "4868628"	USPAT USPAT	2003/08/19 08:08 2003/08/19 08:10
_	8	"4907059"   "4954865").PN. 4907059.URPN.	USPAT	2003/08/10 08:42
_	4	5031020.URPN.	USPAT	2003/08/19 08:12 2003/08/19 08:13
-	3	("4825274"   "4868135"   "4907059").PN.	USPAT	2003/08/19 08:14
-	15	4825274.URPN.	USPAT	2003/08/19 08:14
-	29	5191396.URPN.	USPAT	2003/08/19 08:47
-	16	4908324.URPN.	USPAT	2003/08/19 08:48
	13	4971921.URPN.	USPAT	2003/08/19 08:57

-	10	5208171.URPN.	USPAT	2003/08/19 08:59
-	5	("4752589"   "4806499"   "4879255"   "4962052"   "4971921").PN.	USPAT	2003/08/19 09:01
-	3433	– . ,	USPAT; US-PGPUB; EPO; JPO; IBM TDB	2003/08/21 09:22
-	76	(((438/350) or (438/for.165) or (438/for.166) or (257/565) or (257/592) or (257/e29.044) or (257/e29.144)).CCLS.) and dopant with profile	USPAT; US-PGPUB	2003/08/21 09:23
-	1	4225874.URPN.	USPAT	2003/08/21 09:30
-	18	5279976.URPN.	USPAT	2003/08/21 09:30
<b>-</b>	356	(((438/350) or (438/for.165) or (438/for.166) or (257/565) or (257/592) or (257/e29.044) or (257/e29.144)).CCLS.) and profile	USPAT; US-PGPUB	2003/08/21 09:33